INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/02102

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : C10G 51/02 US CL : 208/73, 74, 75					
According to International Patent Classification (IPC) or to both national classification and IPC					
	OS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 208/73, 74, 75					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search terms: catalytic cracking, feed, downstream, upstream, refractory feed					
	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
X	US 4,218,306 A (GROSS et al) 19 August 1980 (19.0 column 3, lines 1-5 and 38-68; column 4, lines 1-9; c		1-14, 17-30, 36		
Ÿ	column 3, lines 1-5 and 38-68; column 4, lines 1-9; column 7, lines 39-68; column 8, lines 12, 13, and 25-50; column 11, lines 33-60 and claim 1.		15, 16, 31-35		
Y	US 6,416,656 B1 (ZHANG et al) 09 July 2002 (09.07.2002), see column 3, lines 23-47, 66, and 67; column 4, lines 1-23 and 65-67; column 5, lines 1-62; column 6, lines 30-47, 66, and 67; and column 7, lines 1-40.		15, 16, 31-35		
A	US 5,846,403 A (SWAN et al) 08 December 1998 (08.12.1998).		1-36		
A	US 2,908,630 A (FRIEDMAN) 13 October 1959 (13	3.10.1959).	1-36		
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	r documents are listed in the continuation of Box C.	See patent family annex.			
	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic	ation but cited to understand the		
	t defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inve	ention		
		"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in th			
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent	•		
Date of the actual completion of the international search 20 October 2004 (20.10.2004)		Date of mailing of the international sear	T 2004		
Name and mailing address of the ISA/US		Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Walter D. Griffin			
P.O. Box 1430 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 571-272-1700 Parale;			

Form PCT/ISA/210 (second sheet) (January 2004)

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International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)				
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of: a. type of material				
	a sequence listing			
	table(s) related to the sequence listing			
b.	format of material			
	in written format			
	in computer readable form			
c.	c. time of filing/furnishing			
	contained in the international application as filed			
	filed together with the international application in computer readable form			
	furnished subsequently to this Authority for the purposes of search			
2.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
3. Additional comments:				

Form PCT/ISA/210 (continuation of first sheet(1)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/02102

Box	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2.		Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
	Internati	ional Searching Authority found multiple inventions in this international application, as follows:	
1. 2.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite	
		payment of any additional fee.	
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest.			
		No protest accompanied the payment of additional search fees.	

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)